

rec'd PCT/PTO 24 SEP 2004

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 2003/082216 A3

(51) International Patent Classification⁷: A61K 31/415,
31/355, 31/34

(21) International Application Number:
PCT/US2003/009840

(22) International Filing Date: 28 March 2003 (28.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/367,845 28 March 2002 (28.03.2002) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MP, MR, SN, TD, TG).

Published:
— with international search report

(88) Date of publication of the international search report:
15 January 2004

(48) Date of publication of this corrected version:
4 March 2004

(15) Information about Correction:
see PCT Gazette No. 10/21/2004 4 March 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NEUROPROTECTANT METHODS, COMPOSITIONS, AND SCREENING METHODS

(57) Abstract: The present invention relates in general to methods of protecting a mammalian central nervous system cell from damage, and to methods of treating or ameliorating neurodegenerative diseases. The invention further relates to screening for neuroprotective agents that may alone, or in combination with other neuroprotective agents, aid in protecting cells of the central nervous system from damage attributed to neurotoxic compounds, free radicals, or neurodegenerative diseases. The invention further relates to pharmaceutical compositions comprising L-ergothioneine or other newly identified compounds and pharmaceutically acceptable carriers for administration to a mammal in need of neuroprotection.

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